

Purchasing Receipts

PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	P/D
PO038792	TWM001-VU	1	1	Net 30	M304TR0.500W.049	304 Round Tube .500 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft				120	1/22/2018	120	S034342	Stock	1/22/2018	\$ 2.80 / pcs	0		
		2			M304TR0.500W.035	304 Round Tube .500 X .035W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft				220		220	S034343	Stock	1/22/2018	\$ 1.50 / pcs	0		
		3			M304TR0.750W.049	304 Round Tube .750 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft				100		100	S034344	Stock	1/22/2018	\$ 2.10 / pcs	0		
		4			M6061T6T0.500W.035	6061-T6 Round Tube .500 X .035W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft				36		36	S034345	Stock	1/22/2018	\$ 1.75 / ft	0		
		5			M6061T6T0.500W.038	6061-T6 Round Tube .500 X .035W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft				100		100	S034346	Stock	1/22/2018	\$ 1.75 / pcs	0		
		6			M6061T6T0.625W.124	6061-T6 Round Tube .625 X .125W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft				60		60	S034347	Stock	1/22/2018	\$ 5.15 / pcs	0		
										Total:	636	636							



D'Neal High-Performance Metals Group

Packing
Slip

ORDER NO.: 60647763 FROM: CRAN PAGE 1

CUST NUMBER: 1203820 NET WGT: 129.447 REQ.DATE: 01/22/18 CONFIRMED
SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
CANADA CN K6A 1K7
SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 01/17/18
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO038792 RELEASE NO.:
RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH
0001 36506 SMLS CD 304/L A269 1/2 OD X .049 WA 20' ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	120.000 FT	120.000 FT	120.000 FT	28.310	

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00
PO:49366890 HT:YX1108593 PC: 6 CUSTOMER QTY: UOM
MLT:CHINA MFG:CHINA SLB/CL:7-44

0002 36449 SMLS CD 304/L A269 1/2 OD X .035 WA 20' ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	220.000 FT	220.000 FT	220.000 FT	38.227	

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00
PO:49366890 HT:YX1608590 PC: 11 CUSTOMER QTY: UOM
MLT:CHINA MFG:CHINA SLB/CL:7-45

0003 36860 SMLS CD 304/L A269 3/4 OD X .049 WA 20' CL

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	100.000 FT	100.000 FT	100.000 FT	36.672	

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00
PO:49339141 HT:YX1508708 PC: 5 CUSTOMER QTY: UOM
MLT:CHINA MFG:CHINA SLB/CL:2-115

1
THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
<http://www.twmetals.com/invoice-terms.html>



O'Neal High-Performance Metals Group



Packing
Slip

ORDER NO.: 60647763 FROM: CRAN PAGE 2

CUST NUMBER: 1203820 NET WGT: 129.447 REQ. DATE: 01/22/18 CONFIRMED
SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
CANADA CN K6A 1K7
CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 01/17/18
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO038792 RELEASE NO.:
RECEIVING PHONE:

LINE	ITEM DESCRIPTION	WIDTH	LENGTH
0004	42196 D6061-T6 1/2 OD X .035 WA	12 FT	ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	36.000 FT	36.000 FT	36.000 FT	2.160	

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49378229 HT:F002542370001 PC: 3 CUSTOMER QTY: UOM
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:224461

0005	42276 D6061-T6 1/2 OD X .058 WA	12 FT	ML
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CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	100.000 FT	108.000 FT	108.000 FT	10.225	

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49378297 HT:F002542390002 PC: 9 CUSTOMER QTY: UOM
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:224471

0006	42588 D6061-T6 5/8 OD X .125 WA	12 FT	ML
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CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	60.000 FT	60.000 FT	60.000 FT	13.853	

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49375542 HT:F002495120001 PC: 5 CUSTOMER QTY: UOM
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:224098



O'Neal High-Performance Metals Group



Packing
Slip

ORDER NO.: 60647763 FROM: CRAN PAGE 3

CUST NUMBER: 1203820 NET WGT: 129.447 REQ. DATE: 01/22/18 CONFIRMED
SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
CANADA CN K6A 1K7
SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 01/17/18
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO038792 RELEASE NO.:
RECEIVING PHONE:

LINE	ITEM DESCRIPTION	WIDTH	LENGTH
	BROKERS KUEHNE AND NAGEL LTD		

PACK INFO					
AREA	TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH
NEW PEN REDDICRATE		1.000	189.447	4.0000	246.0000
Orders In Package - 1			Box No - TWPK18000191		4

1.000 189.447

UNLOAD TYPE: NONE SPECIFIED

BY: Tom Weaver
RT 000-

DATE SHIPPED _____

1

DATE FILLED _____

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
<http://www.twmetals.com/invoice-terms.html>



O'Neal High-Performance Metals Group



Packing Slip

ORDER NO.: 60647763 FROM: CRAN PAGE 4

CUST NUMBER: 1203820 NET WGT: 129.447 REQ. DATE: 01/22/18 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON:	DONNA SMALLEY	SHIP BY:	01/17/18
TERMS:	NET 30 DAYS	27 ENGLEHARD DRIVE	
F.O.B.:	SHIPPING POINT	MONROE TWP	NJ 08831
CUST ORD NO.:	PO038792		
VIA:	COMMON CARRIER		
FREIGHT:	PREPAID		
RELEASE NO.:			
RECEIVING PHONE:			

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material."

Electronically Generated Certificate-Valid without signature Date: 1/16/18

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.
<http://www.twmetals.com/invoice-terms.html>



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038792

Supplier:	TWM001-VU TW Metals PO Box 933014 Atlanta, GA 31193-3014 USA Phone: 585 768 5600 Fax: 585 768 5601	PO No:	PO038792
Ship To:	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	PO Date:	1/16/18
		Due Date:	1/22/18
		Purchase Order Revision:	
		Revision Date:	
		Ship-To Contact:	Lavoie, Chantal Phone: clavoie@dartaero.com
		Via:	Ground
		Pymt Terms:	Net 30
		Freight Terms:	
		Special Comments:	

E-MAILED

JAN 17 2018

JAN 18 2018

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	M304TR0.500W.049		304 Round Tube .500 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	1/22/18	120 pcs	0 pcs	120 pcs	\$2.80/pcs	\$336.00
2	M304TR0.500W.035		304 Round Tube .500 X .035W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	1/22/18	220 pcs	0 pcs	220 pcs	\$1.50/pcs	\$330.00
3	M304TR0.750W.049		304 Round Tube .750 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	1/22/18	100 pcs	0 pcs	100 pcs	\$2.10/pcs	\$210.00
4	M6061T6T0.500W.035		6061-T6 Round Tube .500 X.035W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	1/22/18	36 ft	0 ft	36 ft	\$1.75/ft	\$63.00

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
5	M6061T6T0.500W.058		6061-T6 Round Tube .500 X.058W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	1/22/18	100 pcs	0 pcs	100 pcs	\$1.75/pcs	\$175.00
6	M6061T6T0.625W.125		6061-T6 Round Tube 0.625 X.125W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	1/22/18	60 pcs	0 pcs	60 pcs	\$5.15/pcs	\$309.00
Grand Total: \$1,423.00										
Order Notes										
Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality documents A048 counterfeit parts avoidance, detection, mitigation and disposition program A049 supplier awareness										
Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dart aerospace.com for further explanation.										

Plex 1/16/18 7:48 AM dart.lavoie.chantal



27 ENGLEHARD DRIVE
MONROE TWP NJ 08831
Tel: 609-655-4120
FAX: 6096552603

Invoice#: 60647763
Cust. PO#: PO038792
Incoterms: SHIPPING POINT
Fr. Terms: PREPAID
Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKSBURY ON
CANADA CN K6A 1K7 C
Contact: CHANTAL
16136321053

Invoice Date: 1/17/18
Ship Date: 1/16/18
Payment Terms: NET 30 DAYS

Freight Forwarder/Intermediate Ship To:

Ship To/Final Destination:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKSBURY ON
ONTARIO CANADA CN K6A 1K7

ITEM#/ LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
36506	SMLS CD 304/L A269 1/2 OD X .049 WA 1 STAINLESS STEEL TUBE ROUND	120.000 FT 0 IN 6.000 PC	\$ 2.8000 FT	\$ 336.00
1	PART NUMBER: ECCN: 2B999.g SCHEDULE B:7304.41.0000 S/S PIPE/TUBE ROUND SMLS W/OD </=3"			
	NET WGT: 28.310 LBS COUNTRY OF MFG: CHINA			
36449	SMLS CD 304/L A269 1/2 OD X .035 WA 2 STAINLESS STEEL TUBE ROUND	220.000 FT 0 IN 11.000 PC	\$ 1.5000 FT	\$ 330.00
2	PART NUMBER: ECCN: 2B999.g SCHEDULE B:7304.41.0000			
EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00				
TW METALS, INC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, INC.				
THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.				CONTINUE
Page 1				



27 ENGLEHARD DRIVE
MONROE TWP NJ 08831
Tel: 609-655-4120
FAX: 6096552603

Invoice#: 60647763
Cust. PO#: P0038792
Incoterms: SHIPPING POINT
Fr. Terms: PREPAID
Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKSBURY ON CANADA CN K6A 1K7 C Contact: CHANTAL 16136321053	Invoice Date: 1/17/18 Ship Date: 1/16/18 Payment Terms: NET 30 DAYS Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKSBURY ON ONTARIO CANADA CN K6A 1K7
Freight Forwarder/Intermediate Ship To:	

ITEM# / LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
36860	S/S PIPE/TUBE ROUND SMLS W/OD </=3" NET WGT: 38.227 LBS COUNTRY OF MFG: CHINA	100.000 FT 0 IN	\$ 2.1000 FT	\$ 210.00
3	STAINLESS STEEL TUBE ROUND PART NUMBER: ECCN: 2B999.g SCHEQUE B:7304.11.0000	5.000 PC		
42196	NET WGT: 36.672 LBS COUNTRY OF MFG: CHINA			
4	D6061-T6 1/2 OD X .035 WA ALUMINUM TUBE ROUND PART NUMBER:	36.000 FT 0 IN 3.000 PC	\$ 1.7500 FT	\$ 63.00
	EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00			
	TWI METALS, INC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TWI METALS, INC. THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.			CONTINUE



27 ENGLEHARD DRIVE
MONROE TWP NJ 08831
Tel: 609-655-4120
FAX: 6096552603

Invoice#: 60647763
Cust. PO#: PO038792
Incoterms: SHIPPING POINT
Fr. Terms: PREPAID
Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKSBURY ON
CANADA CN K6A 1K7 C

Contact: CHANTAL
16136321053

Freight Forwarder/Intermediate Ship To:

Invoice Date: 1/17/18
Ship Date: 1/16/18
Payment Terms: NET 30 DAYS

Ship To/Final Destination:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKSBURY ON
ONTARIO CANADA CN K6A 1K7

ITEM#/ LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
42276	ECCN: EAR99 SCHEDULE B:7608.20.0030 ALUM PIPE/TUBE - SEAMLESS NET WGT: 2.160 LBS COUNTRY OF MFG: UNITED STATES D6061-T6 1/2 OD X .058 WA	108.000 FT 0 IN	\$ 1.7500 FT	\$ 189.00
5	ALUMINUM TUBE ROUND PART NUMBER: ECCN: EAR99 SCHEDULE B:7608.20.0030 ALUM PIPE/TUBE - SEAMLESS NET WGT: 10.225 LBS COUNTRY OF MFG: UNITED STATES D6061-T6 5/8 OD X .125 WA	9.000 PC		
42588	EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00 TW METALS, INC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, INC. THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.	60.000 FT	\$ 5.1500 FT	\$ 309.00
		3		CONTINUE



27 ENGLEHARD DRIVE
MONROE TWP NJ 08831
Tel: 609-655-4120
FAX: 6096552603

Invoice#: 60647763
Cust. PO#: PO038792
Incoterms: SHIPPING POINT
Fr. Terms: PREPAID
Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKSBURY ON
CANADA CN K6A 1K7 C
Contact: CHANTAL
16136321053

Freight Forwarder/Intermediate Ship To:

Invoice Date: 1/17/18
Ship Date: 1/16/18
Payment Terms: NET 30 DAYS

Ship To/Final Destination:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKSBURY ON
ONTARIO CANADA CN K6A 1K7

ITEM#/LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
6	ALUMINUM TUBE ROUND PART NUMBER: ECCN: EAR99 SCHEDULE B: 7608.20.0030 ALUM PIPE/TUBE - SEAMLESS NET WGT: 13.853 LBS COUNTRY OF MFG: UNITED STATES QUANTITY AND TYPE OF BOXES: 1 REDDICRATE 246.0000 X 4.0000 X 4.0000 TOTAL WGT: 189.447 LBS GROSS WGT: 189.447 LBS	0 IN 5.000 PC		
	EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00			
	TW METALS, INC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, INC THESE ITEMS ARE CONTROLLED BY THE U.S GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S LAW AND REGULATIONS.		Sales Tax Payable in US Dollars	.00 1437.00

MILL TEST REPORT

Purchaser.: TW METALS-Cranbury			Certificate No.: 2017-8-82						
Contract No.: TWM P.O.No.: M49366890			Date of Issue.: 2017.8.26						
Commodity: Stainless Steel Seamless Tubes			Specifications: ASTM A213-17/ASME SA213-15/ASTM A269-15a EAW						
Process: Cold Drawn			Delivery Condition: OD Polished to 240 Grit						
Steel Grade	Heat Number	Lot Number	Dimensions			Quantity			
						Pieces	Feet		
TP304/TP304L	YX1108-593	7-44	1/2"x0.049"x20'			500	10,000		
Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.023	0.70	0.032	0.001	0.36	18.50	8.05	-	-
Product Analysis	0.020	0.67	0.034	0.002	0.34	18.67	8.13	-	-
Mechanical Properties									
Test Item	Elongation (% in 2")		Tensile Strength (PSI)			Yield Strength (PSI)			
Requirements	≥35		Rm			Rp / 0.2%			
Test Results	61/62		≥75,000			≥30,000			
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test		
Requirements	-	HRB≤80	-	22%	e=0.09	-	-		
Test Results	-	77/79	-	Passed	Passed	-	OK		
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection				
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance			
Test Results	Passed	-	-	OK	OK	OK			

ISO 9001:2008 Certified by CAS 117 16 QU 0053-06 ROS

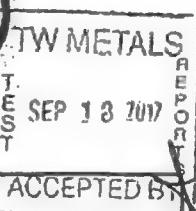
PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-17
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE
FAR BAA / DFARS BAA / FAR TAA

By:



James Shi / Manager
Quality Control Department

ACCEPTED BY

We hereby certify that this report is true and correct.

Jiangsu Pufa Stainless Steel Tube Co., Ltd.

No. 99, Xuean Middle Road, Dongchen Town, Rugao City, Jiangsu Province, P.R.China

MILL TEST REPORT

Purchaser.: TW METALS-Cranbury	Certificate No.: 2017-8-81				
Contract No.: TWM P.O.No.: M49366890	Date of Issue.: 2017.8.26				
Commodity: Stainless Steel Seamless Tubes	Specifications: ASTM A213-17/ASME SA213-15/ASTM A269-15a EAW				
Process: Cold Drawn	Delivery Condition: OD Polished to 240 Grit				
Steel Grade	Heat Number	Lot Number	Dimensions	Quantity	
TP304/TP304L	YX1608-590			7-45	1/2"x0.035"x20'
Chemical Composition by Weight (%)					

Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.017	1.28	0.033	0.002	0.35	18.22	8.06	-	-
Product Analysis	0.022	1.27	0.035	0.004	0.38	18.36	8.09	-	-

Mechanical Properties									
Test Item	Elongation (% in 2")		Tensile Strength (PSI)			Yield Strength (PSI)			
			Rm	Rp / 0.2%	Rp / 0.2%	Rp / 0.2%	Rp / 0.2%	Rp / 0.2%	Rp / 0.2%
Requirements	≥35		≥75,000			≥30,000			
Test Results	61/62		99,000/100,000			44,000/45,000			
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test		
Requirements	-	HRB≤80	-	22%	c=0.09	-	-		
Test Results	-	77/79	-	Passed	Passed	-	OK		
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection				
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance			
Test Results	Passed	-	-	OK	OK	OK			

ISO 9001:2008 Certified by CAS 117 16 QU 0053-06 ROS

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-17
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE
FAR BAA / DFARS BAA / FAR TAA

By:

James Shi / Manager
Quality Control Department

T	W METALS	REPORT
E	SEP 18 2017	
S		
T		
ACCEPTED BY		

We hereby certify that this report is true and correct.

Jiangsu Pufa Stainless Steel Tube Co., Ltd.

No. 99, Xuean Middle Road, Dongchen Town, Rugao City, Jiangsu Province, P.R.China

PUFA™

Producer of Premium Stainless Steel Seamless Tubes

MILL TEST REPORT

Purchaser.: TW METALS-Cranbury			Certificate No.: 16-3-175						
Contract No.: TWM P.O.No.: M49339141			Date of Issue.: 2016.3.31						
Commodity: Stainless Steel Seamless Tubes		Specifications: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW							
Process: Cold Drawn			Delivery Condition: OD Polished to 240 Grit						
Steel Grade	Heat Number	Lot Number	Dimensions		Quantity				
TP304/TP304L	YX1508-708	2-115	3/4" x 0.049" x 20'		Pieces	Feet			
Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.021	0.58	0.033	0.002	0.26	18.35	8.05	-	-
Product Analysis	0.019	0.76	0.032	0.006	0.27	18.59	8.28	-	-
Mechanical Properties									
Test Item	Elongation (% in 2")		Tensile Strength (PSI) Rm			Yield Strength (PSI) Rp / 0.2%			
Requirements	≥35		≥75,000			≥30,000			
Test Results	61/62		93,000/94,000			40,000/41,000			
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test		
Requirements	-	HRB≤80	-	22%	e=0.09	-	-		
Test Results	-	76/78	-	Passed	Passed	-	OK		
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection				
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance			
Test Results	Passed	-	-	OK	OK	OK			

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-15
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

**CANNOT CERTIFY COMPLIANCE
FAR BAA / DFARS BAA / FAR TAA**

By:



James Shi

James Shi / Manager

Quality Control Department

We hereby certify that this report is true and correct.

Shanghai Pufa Stainless Steel Pipe Factory
No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China



KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:				
M49378229-1		42196		Drawn Seamless Tube/Pipe				
KAISER ORDER NUMBER:	LINE ITEM:		SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:		
224461	001		11/07/2017	F00254237	6061	T6		
WEIGHT SHIPPED:	QUANTITY:		B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:		
341.000 LB	476.000 PCS		227427			12.000 FT		
SHIP TO:				SOLD TO:				
TW METALS INC 27 ENGLEHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA				TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA				

Actual Physical Properties

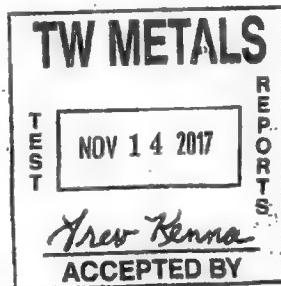
REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND.
F00254237	0001	1	46.9	39.6	17.0	N/A	N/A	N/A
F00254237	0002	1	47.1	40.6	17.5	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D0674A	.60	.26	.21	.05	.97	.09	.04	.03	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.5000"; Wall: 0.0350"; Round @
 AMS4082P ~~AMS-WW-T-700/6C~~ ASTM B210-12 WW-T-700/6F
 WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.
 This Product Complies to FAR BAA, DFARS BAA, FAR TAA
 COMPLIES TO DIN EN 10204 JAN 2005
 No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
 MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
 (DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
 TRADE AGREEMENTS).

Plant Serial: 00026630
 Kaiser Order Number: 224461

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager



KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:			
M49378297-1		42276		Drawn Seamless Tube/Pipe			
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:		
224471	001	11/07/2017	F00254239	6061	T6		
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:		
463.000 LB	406.000 PCS	227417			12.000 FT		
SHIP TO:				SOLD TO:			
TW METALS INC 235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA				TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA			

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00254239	0001	1	46.6	40.1	18.0	N/A	N/A	N/A
F00254239	0002	1	44.8	38.8	17.0	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D0674A	.60	.26	.21	.05	.97	.09	.04	.03	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.5000"; Wall: 0.0580"; Round Ø
 AMS4082P AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F
 WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.
 This Product Complies to FAR BAA, DFARS BAA, FAR TAA
 COMPLIES TO DIN EN 10204 JAN 2005
 No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
 MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
 (DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
 TRADE AGREEMENTS).

Plant Serial: 00026618
 Kaiser Order Number: 224471
 Line Item: 001

KAISER

ALUMINUM

FABRICATED PRODUCTS

**KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226**

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentmidt, Quality Manager



KAISER
ALUMINUM
FABRICATED PRODUCTS

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:			
M49375542-1		42588		Drawn Seamless Tube/Pipe			
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:		
224098	001	09/11/2017	F00249512	6061	T6		
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:		
241.000 LB	87.000 PCS	226742			12.000 FT		
SHIP TO:				SOLD TO:			
TW METALS INC 27 ENGLEHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA				TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA			

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00249512	0001	1	47.7	41.2	19.0	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D30480	.58	.31	.23	.04	.94	.09	.05	.02	.00	.00	.00	.02	.03

Applicable Requirements:

Description: OD: 0.6250"; Wall: 0.1250"; Round @
 AMS4082P ~~AMS-WW-T-700/6C~~ ASTM B210-12 WW-T-700/6F
 WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.
 This Product Complies to FAR BAA, DFARS BAA, FAR TAA
 COMPLIES TO DIN EN 10204 JAN 2005
 No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
 MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
 (DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
 TRADE AGREEMENTS).

Plant Serial: 00026072
 Kaiser Order Number: 224098

Line Item: 001

KAISER

ALUMINUM

FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

*Brett in
Chandler*

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager



MATERIAL RECEIPT INSPECTION FORM

MATERIAL M606146+0.625W125
 DATE: JAN 22 2018

PO / BATCH NO. 038792/8034347

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 60 "
 QUANTITY INSPECTED: 60 "
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W.125
 THICKNESS RECEIVED: W.125
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> N	
CORROSION	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> N	<i>AMS-WW-T-700/6c</i>
CORRECT THICKNESS	<input checked="" type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> N	<i>Heat# 400289572 0001</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-89 JAN 22 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PURCHASE MATERIAL: M6061-T6/T8510/T8511 SEAMLESS TUBING

SPECIFICATION:
WW-T-7006
OR QQA-2258
OR AMS 4080 OR AMS 4082 OR AMS 4083
OR ASTM B210 OR ASTM B241

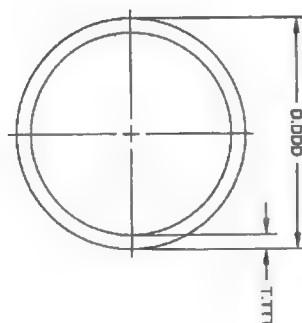
PART NUMBER: M6061T6T0.DODDWWT.TT

WHERE "D.DDD" = OD IN INCHES
"T.TTT" = WALL THICKNESS

EG. 3/8" OD X 0.058 WALL = M6061T6T0.375W0.058

MATERIAL TOLERANCE:

PER ANSI H35.2



RELEASED
2013-07-02
[Signature]

C	COMPLETE REFORMAT. ADDED T8510 & T8511. ADDED AMS 4083, ASTM B210 & ASTM B241.	AJS	13.06.12
B	ADD QQA-2208 & QQA-2258	CP	04.01.23
A	NEW ISSUE	DS	01.06.21
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE LTD	
DRAWN	AJS	HAWTHORPE, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	
MFG. APPR.	<i>[Signature]</i>	M6061T6T	REV. C
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	6061-T6 TUBING	NTS
DATE	13.06.12	COPYRIGHT ©2011 BY DART AEROSPACE LTD. NOT FOR SALE, FURTHER DISSEMINATION AND USE ARE PROHIBITED UNLESS AUTHORIZED IN WRITING BY DART AEROSPACE LTD. THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE MAINTAINED AS A CONFIDENTIAL DOCUMENT AND IS NOT TO BE COPIED OR DISCLOSED EXCEPT AS AUTHORIZED BY DART AEROSPACE LTD.	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL
DATE

M606146 to 500 W.058
JAN 22 2018

PO : BATCH NO.

038792/5034346

MATERIAL CERT REC'D

Yes

QUANTITY RECEIVED

100"

QUANTITY INSPECTED:

100"

QUANTITY REJECTED:

0

THICKNESS ORDERED

W.058

THICKNESS RECEIVED:

W.052

SHEET SIZE ORDERED:

N/A

SHEET SIZE RECEIVED:

N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>AMS-WW-T700/6C</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Heat# - P002542390002</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	<u>11</u> 9-89	SIGNED OFF BY:
DATE:	<u>JAN 22 2018</u>	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PURCHASE MATERIAL: M606116T0.375W0.056 11 SEAMLESS TUBING

SPECIFICATION:

WW-77008
OR QQA-A-2258

OR AMS 4080 OR AMS 4082 OR AMS 4083

OR ASTM B210 OR ASTM B241

△C

PART NUMBER:

M606116T0.375W0.056

△C

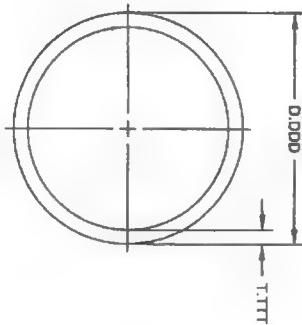
WHERE "D,000" = OD IN INCHES

"T,TTT" = WALL THICKNESS

EG. 3.68" OD X 0.056 WALL = M606116T0.375W0.056

MATERIAL TOLERANCE:

PER ANSI H3.5.2 △C



RELEASED
2013-07-07
△C

C	COMPLETE REFORMAT, ADDED TR6510 & TR6511. ADDED MATERIAL TOLERANCE.	AJS	13.06.12
B	ADD QQA-A-2258 & QQA-A-2256	CP	04.01.23
A	NEW ISSUE	DS	01.06.21
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED	△C	DRAWING NO.	REV. C
MFG. APPR.	△C	M606116T	SHEET 1 OF 1
APPROVED	△C	TITLE	SCALE
DE AIPR	△C	6061-T6 TUBING	NTS
DATE	13.06.12		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M304tro.750W.049
 DATE: JAN 22 2018

PO / BATCH NO. 038742/5034344

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 100"
 QUANTITY INSPECTED: 100"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W.049
 THICKNESS RECEIVED: W.049
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>Astm A213</i>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>Hastelloy X1508708</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	<u>11</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE:	<u>JAN 22 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

D

PURCHASE MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING

SPECIFICATION: ASTM A213 OR ASME SA213 OR ASTM A269



WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:

OD (IN)	OD TOL. (IN)	PERMISSABLE WALL TOL.	PERMISSABLE WALL TOL.
UP TO $\frac{1}{4}$	± 0.005	$\pm 15\%$	$\pm 10\%$
$\frac{1}{2}$ TO $1\frac{1}{4}$ EXCL.	± 0.005	$\pm 10\%$	$\pm 10\%$
$1\frac{1}{2}$ TO $3\frac{1}{4}$ EXCL.	± 0.010	$\pm 10\%$	$\pm 10\%$
$3\frac{1}{2}$ TO $5\frac{1}{2}$ EXCL.	± 0.015	$\pm 10\%$	$\pm 10\%$
$5\frac{1}{2}$ TO 8 EXCL.	± 0.030	$\pm 10\%$	$\pm 10\%$

PART NUMBER:

M304TR D DDD W TTT
OD | OD | WALL

WHERE "D DDD" = OUTSIDE DIAMETER IN INCHES
AND "TTT" = WALL THICKNESS IN INCHES

EG. 0.375" OD X 0.065" WALL TUBING = M304TR 0.375W 065

A	RELEASED <i>20/03/04</i>			B
C	REFORMAT DWG ADD SPECS (ZN D8-1), REF PAR 08-020A			D
A	NEW ISSUE	OP	08 10 20	
REV	DESCRIPTION	DS	01 06 08	
DESIGN	DRAWN	BY	DATE	
CHECKED	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA		
MFG. APPR.	<i>[Signature]</i>	DRAWING NO.		
APPROVED	<i>[Signature]</i>	M304TR		
DE APPR.	<i>[Signature]</i>	TITLE	REV. B	
DATE	08.10.20	SCALE	SHEET 1 OF 1	
304/316 ROUND TUBING				
COPYRIGHT 2001 BY DART AEROSPACE LTD				
NTS				

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M6061670-500W.035
 DATE: JAN 22 2018

PO / BATCH NO. 038792/5034345

MATERIAL CERT REC'D. YES
 QUANTITY RECEIVED: 36"
 QUANTITY INSPECTED: 36"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W.035
 THICKNESS RECEIVED: W.035
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>WW-T-7001ac</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Heat FF 1002542370001</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>11</u>	9-89 JAN 22 2018	SIGNED OFF BY: _____
DATE: _____		DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 1304TR0.500W.035
 DATE: JAN 22 2018

PO / BATCH NO.: 038792/5034343

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 220"
 QUANTITY INSPECTED: 220"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W.035
 THICKNESS RECEIVED: W.035
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	Y <u>N</u>	Astan A213
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	Heat# YX1608590
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> <u>9-89 JAN 22 2019</u> DATE:	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING
 SPECIFICATION: ASTM A213 OR ASME SA213 OR ASTM A269

⚠ B *WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:*

OD (IN)	PERMISSABLE OD TOL. (IN)	PERMISSABLE WALL TOL.
UP TO $\frac{1}{2}$	± 0.005	$\pm 15\%$
$\frac{1}{2}$ TO $1\frac{1}{2}$, EXCL.	± 0.005	$\pm 10\%$
$1\frac{1}{2}$ TO $3\frac{1}{2}$, EXCL.	± 0.010	$\pm 10\%$
$3\frac{1}{2}$ TO $5\frac{1}{2}$, EXCL.	± 0.015	$\pm 10\%$
$5\frac{1}{2}$ TO 8, EXCL.	± 0.030	$\pm 10\%$

PART NUMBER:

M304TR|D|DDDW|W|TTT
 OD |WALL|

WHERE "D.DDW" = OUTSIDE DIAMETER IN INCHES

AND "W.TTT" = WALL THICKNESS IN INCHES

EG. 0.375" OD X 0.065" WALL TUBING = M304TR0.375W.065

RELEASED
08/23/16

B	REFORMAT DWG. ADD SPECS (ZN DB-1), REF PAR 08-020A	CP	08-10-20
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
	DART AEROSPACE LTD		
	HAWKSBURY, ONTARIO, CANADA		
	DRAWING NO. M304TR		REV. B
	TITLE		SHEET 1 OF 1
	304/316 ROUND TUBING		NTS
	DATE 08.10.20		

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304tro.500W.049
 DATE: JAN 22 2018

PO / BATCH NO.: 038792/5034342

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 120"
 QUANTITY INSPECTED: 120"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W.049
 THICKNESS RECEIVED: W.049
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<i>Atm A213</i>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<i>Heat# YX1108593</i>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>11</u>	9-89	SIGNED OFF BY: _____
DATE: <u>JAN 22 2018</u>		DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

D

PURCHASE MATERIAL: ANSI 304/316 SS SEAMLESS ROUND TUBING

SPECIFICATION: ASTM A213 OR ASME SA213 OR ASTM A269

WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:

OD (IN)	OD TOL (IN)	PERMISSABLE WALL TOL
UP TO $\frac{1}{2}$ "	± 0.005	$\pm 15\%$
$\frac{1}{2}$ " TO $1\frac{1}{2}$ " EXCL.	± 0.005	$\pm 10\%$
$1\frac{1}{2}$ " TO $3\frac{1}{2}$ " EXCL.	± 0.010	$\pm 10\%$
$3\frac{1}{2}$ " TO $5\frac{1}{2}$ " EXCL.	± 0.015	$\pm 10\%$
$5\frac{1}{2}$ " TO 8" EXCL.	± 0.030	$\pm 10\%$

PART NUMBER:

M304TR|D.DDDW|TTT
| OD | WALL

WHERE "D.DDD" = OUTSIDE DIAMETER IN INCHES
AND ".TTT" = WALL THICKNESS IN INCHES

EG. 0.375" OD X 0.065" WALL TUBING = M304TR0.375W.065

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A

RELEASED
Oct 10/08

B	REFORMAT DWG. AND SPECS (ZN DB-1), REF PAR 06420A	CP	08-10-20
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DESIGN	DART AEROSPACE LTD		
DRAWN	<i>[Signature]</i> HAWKESBURY ONTARIO CANADA		
CHECKED	<i>[Signature]</i>		
MFG. APPR.	DRAWING NO. M304TR		
APPROVED	<i>[Signature]</i>		
DE APPROV	TITLE 304/316 ROUND TUBING		
DATE	SCALE NTS COPRIGHT © 2001 BY DART AEROSPACE LTD		
08.10.20	REV. B SHEET 1 OF 1 DATE		